

05-00

#11



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## RAW SEQUENCE LISTING

DATE: 05/01/2002

PATENT APPLICATION: US/09/975,374A

TIME: 12:31:20

Input Set : A:\1479-00 Seq. List..txt

Output Set: N:\CRF3\05012002\I975374A.raw

p.6

3 <110> APPLICANT: LAZDUNSKI, MICHEL  
 4 LAMBEAU, GERARD  
 5 VALENTIN, EMMANUEL  
 7 <120> TITLE OF INVENTION: CLONING AND RECOMBINANT EXPRESSION OF MAMMALIAN GROUP  
 8 XII SECRETED PHOSPHOLIPASE A2  
 10 <130> FILE REFERENCE: 1479-R-00  
 12 <140> CURRENT APPLICATION NUMBER: 09/975,374A  
 C--> 13 <141> CURRENT FILING DATE: 2002-04-15  
 15 <150> PRIOR APPLICATION NUMBER: 60/239,489  
 16 <151> PRIOR FILING DATE: 2000-10-11  
 18 <160> NUMBER OF SEQ ID NOS: 18  
 20 <170> SOFTWARE: PatentIn Ver. 2.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 716  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: CDS  
 29 <222> LOCATION: (121)..(690)  
 30 <223> OTHER INFORMATION: cDNA coding the human group XII sPLA2  
 32 <400> SEQUENCE: 1  
 33 atatggagct ggctgctgcc aagtccgggg cccgcgccgc tgcctagcgc gtcctgggga 60  
 35 ctctgtgggg acgcgccccg cgccgcggtt cggggacccg tagagcccg cgctgcgcgc 120  
 37 atg gcc ctg ctg tgc cgc ccc gcg ctc acc ctc ctg ctc ctc ctc atg 168  
 38 Met Ala Leu Leu Ser Arg Pro Ala Leu Thr Leu Leu Leu Leu Met  
 39 1 5 10 15  
 41 gcc gct gtt gtc agg tgc cag gag cag gcc cag acc acc gac tgg aga 216  
 42 Ala Ala Val Val Arg Cys Gln Glu Gln Ala Gln Thr Thr Asp Trp Arg  
 43 20 25 30  
 45 gcc acc ctg aag acc atc cgg aac ggc gtt cat aag ata gac acg tac 264  
 46 Ala Thr Leu Lys Thr Ile Arg Asn Gly Val His Lys Ile Asp Thr Tyr  
 47 35 40 45  
 49 ctg aac gcc gcc ttg gac ctc ctg gga ggc gag gac ggt ctc tgc cag 312  
 50 Leu Asn Ala Ala Leu Asp Leu Leu Gly Gly Glu Asp Gly Leu Cys Gln  
 51 50 55 60  
 53 tat aaa tgc agt gac gga tct aag cct ttc cca cgt tat ggt tat aaa 360  
 54 Tyr Lys Cys Ser Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys  
 55 65 70 75 80  
 57 ccc tcc cca ccg aat gga tgt ggc tct cca ctg ttt ggt gtt cat ctt 408  
 58 Pro Ser Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Val His Leu  
 59 85 90 95  
 61 aac att ggt atc cct tcc ctg aca aag tgt tgc aac caa cac gac agg 456  
 62 Asn Ile Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg

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63          100          105          110
65 tgc tat gag acc tgt ggc aaa agc aag aat gac tgt gat gaa gaa ttc      504
66 Cys Tyr Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe
67          115          120          125
69 cag tat tgc ctc tcc aag atc tgc cga gat gta cag aaa aca cta gga      552
70 Gln Tyr Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly
71          130          135          140
73 cta act cag cat gtt cag gca tgt gaa aca aca gtg gag ctc ttg ttt      600
74 Leu Thr Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe
75 145          150          155          160
77 gac agt gtt ata cat tta ggt tgt aaa cca tat ctg gac agc caa cga      648
78 Asp Ser Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg
79          165          170          175
81 gcc gca tgc agg tgt cat tat gaa gaa aaa act gat ctt taa      690
82 Ala Ala Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu
83          180          185
85 aggagatgcc gacagctagt gacaga      716
88 <210> SEQ ID NO: 2
89 <211> LENGTH: 189
90 <212> TYPE: PRT
91 <213> ORGANISM: Homo sapiens
93 <400> SEQUENCE: 2
94 Met Ala Leu Leu Ser Arg Pro Ala Leu Thr Leu Leu Leu Leu Met
95 1          5-          10          15
97 Ala Ala Val Val Arg Cys Gln Glu Gln Ala Gln Thr Thr Asp Trp Arg
98          20          25          30
100 Ala Thr Leu Lys Thr Ile Arg Asn Gly Val His Lys Ile Asp Thr Tyr
101          35          40          45
103 Leu Asn Ala Ala Leu Asp Leu Leu Gly Gly Glu Asp Gly Leu Cys Gln
104          50          55          60
106 Tyr Lys Cys Ser Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys
107 65          70          75          80
109 Pro Ser Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Val His Leu
110          85          90          95
112 Asn Ile Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg
113          100          105          110
115 Cys Tyr Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe
116          115          120          125
118 Gln Tyr Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly
119          130          135          140
121 Leu Thr Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe
122 145          150          155          160
124 Asp Ser Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg
125          165          170          175
127 Ala Ala Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu
128          180          185
131 <210> SEQ ID NO: 3
132 <211> LENGTH: 35
133 <212> TYPE: DNA

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Input Set : A:\1479-00 Seq. List..txt

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```

134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
139 <400> SEQUENCE: 3
140 ttgtcgccgc catatggagc tggctgctgc caagt 35
143 <210> SEQ ID NO: 4
144 <211> LENGTH: 37
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
151 <400> SEQUENCE: 4
152 tttaagcttc tagaatctgt cactagctgt cggcatc 37
155 <210> SEQ ID NO: 5
156 <211> LENGTH: 42
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
163 <400> SEQUENCE: 5
164 ttggatcca tcgaaggtcg tcaggagcag gccagaccg ac 42
167 <210> SEQ ID NO: 6
168 <211> LENGTH: 20
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
175 <400> SEQUENCE: 6
176 gcctttccca cgttatggtt 20
179 <210> SEQ ID NO: 7
180 <211> LENGTH: 20
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
187 <400> SEQUENCE: 7
188 ggatgtggct ctccactgtt 20
191 <210> SEQ ID NO: 8
192 <211> LENGTH: 5
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
199 <400> SEQUENCE: 8
200 Gly Cys Gly Ser Pro
201 1 5
204 <210> SEQ ID NO: 9
205 <211> LENGTH: 8
206 <212> TYPE: PRT

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TIME: 12:31:20

Input Set : A:\1479-00 Seq. List..txt

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207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
211     sequence
213 <220> FEATURE:
214 <221> NAME/KEY: MOD_RES
215 <222> LOCATION: (3)..(4)
216 <223> OTHER INFORMATION: Any amino acid
218 <220> FEATURE:
219 <221> NAME/KEY: MOD_RES
220 <222> LOCATION: (7)
221 <223> OTHER INFORMATION: Any amino acid
223 <400> SEQUENCE: 9
W--> 224 Cys Cys Xaa Xaa His Asp Xaa Cys
225     1           5
228 <210> SEQ ID NO: 10
229 <211> LENGTH: 182
230 <212> TYPE: PRT
231 <213> ORGANISM: Murine sp.
233 <400> SEQUENCE: 10
234 Ser Pro Ala Leu Leu Leu Leu Leu Leu Ala Thr Ala Arg Gly Gln
235     1           5           10           15
237 Glu Gln Asp Gln Thr Thr Asp Trp Arg Ala Thr Leu Lys Thr Ile Arg
238           20           25           30
240 Asn Gly Ile His Lys Ile Asp Thr Tyr Leu Asn Ala Ala Leu Asp Leu
241           35           40           45
243 Leu Gly Gly Glu Asp Gly Leu Cys Gln Tyr Lys Cys Ser Asp Gly Ser
244           50           55           60
246 Lys Pro Val Pro Arg Tyr Gly Tyr Lys Pro Ser Pro Pro Asn Gly Cys
247           65           70           75           80
249 Gly Ser Pro Leu Phe Gly Val His Leu Asn Ile Gly Ile Pro Ser Leu
250           85           90           95
252 Thr Lys Cys Cys Asn Gln His Asp Arg Cys Tyr Glu Thr Cys Gly Lys
253           100          105          110
255 Ser Lys Asn Asp Cys Asp Glu Glu Phe Gln Tyr Cys Leu Ser Lys Ile
256           115          120          125
258 Cys Arg Asp Val Gln Lys Thr Leu Gly Leu Ser Gln Asn Val Gln Ala
259           130          135          140
261 Cys Glu Thr Thr Val Glu Leu Leu Phe Asp Ser Val Ile His Leu Gly
262           145          150          155          160
264 Cys Lys Pro Tyr Leu Asp Ser Gln Arg Ala Ala Cys Trp Cys Arg Tyr
265           165          170          175
267 Glu Glu Ile Thr Asp Leu
268           180
271 <210> SEQ ID NO: 11
272 <211> LENGTH: 165
273 <212> TYPE: PRT
274 <213> ORGANISM: Rattus sp.
276 <400> SEQUENCE: 11

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Input Set : A:\1479-00 Seq. List..txt

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277 Gln Asp Gln Thr Thr Asp Trp Arg Ala Thr Leu Lys Thr Ile Arg Asn
278   1           5           10           15
280 Gly Ile His Lys Ile Asp Thr Tyr Leu Asn Ala Ala Leu Asp Leu Leu
281           20           25           30
283 Gly Gly Glu Asp Gly Leu Cys Gln Tyr Lys Cys Ser Asp Gly Ser Lys
284           35           40           45
286 Pro Ala Pro Arg Tyr Gly Tyr Lys Pro Ser Pro Pro Asn Gly Cys Gly
287           50           55           60
289 Ser Pro Leu Phe Gly Val His Leu Asn Ile Gly Ile Pro Ser Leu Thr
290   65           70           75           80
292 Lys Cys Cys Asn Gln His Asp Arg Cys Tyr Glu Thr Cys Gly Lys Gly
293           85           90           95
295 Lys Asn Asp Cys Asp Glu Glu Phe Gln Ser Cys Leu Ser Lys Ile Cys
296           100          105          110
298 Arg Asp Val Gln Lys Thr Leu Gly Leu Ser Gln Asn Val Gln Ala Cys
299           115          120          125
301 Glu Thr Thr Val Glu Leu Leu Phe Asp Ser Val Ile His Leu Gly Cys
302           130          135          140
304 Lys Pro Tyr Leu Asp Ser Gln Arg Ala Ala Cys Trp Cys Arg Tyr Glu
305  145          150          155          160
307 Glu Lys Thr Asp Leu
308           165

```

311 &lt;210&gt; SEQ ID NO: 12

312 &lt;211&gt; LENGTH: 136

313 &lt;212&gt; TYPE: PRT

314 &lt;213&gt; ORGANISM: Bovine sp.

316 &lt;400&gt; SEQUENCE: 12

```

317 Asn Ala Ala Leu Asp Leu Leu Gly Gly Glu Asp Gly Leu Cys Gln Tyr
318   1           5           10           15
320 Lys Cys Ser Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys Pro
321           20           25           30
323 Ser Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Val His Leu Asn
324           35           40           45
326 Ile Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg Cys
327           50           55           60
329 Tyr Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Ala Phe Gln
330   65           70           75           80
332 Ser Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly Leu
333           85           90           95
335 Ala Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe Asp
336           100          105          110
338 Ser Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg Ala
339           115          120          125
341 Ala Cys Arg Cys Arg Tyr Glu Glu
342           130          135

```

345 &lt;210&gt; SEQ ID NO: 13

346 &lt;211&gt; LENGTH: 194

347 &lt;212&gt; TYPE: PRT

348 &lt;213&gt; ORGANISM: Xenopus sp.

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 05/01/2002  
PATENT APPLICATION: US/09/975,374A      TIME: 12:31:21

Input Set : A:\1479-00 Seq. List..txt  
Output Set: N:\CRF3\05012002\I975374A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 3,4,7  
Seq#:16; Xaa Pos. 15,21